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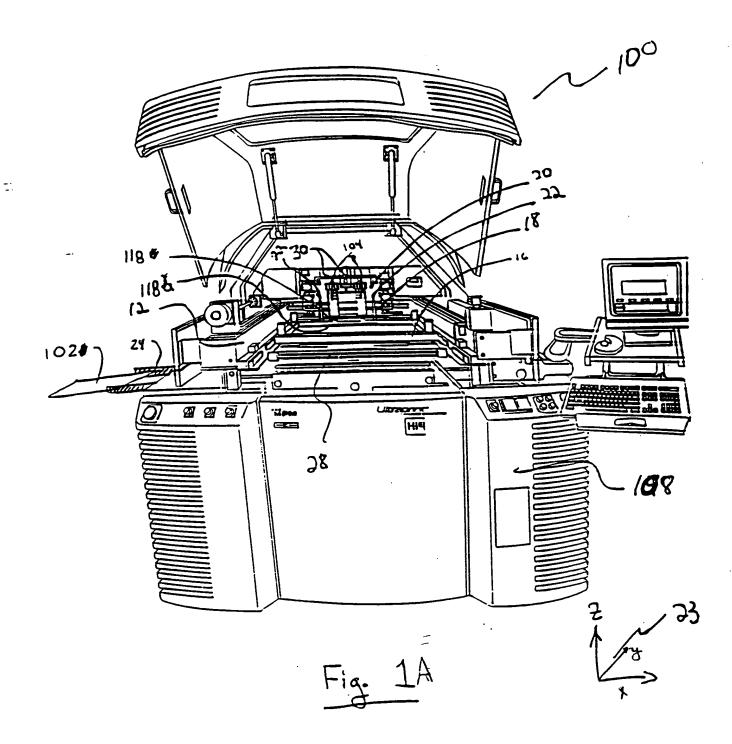
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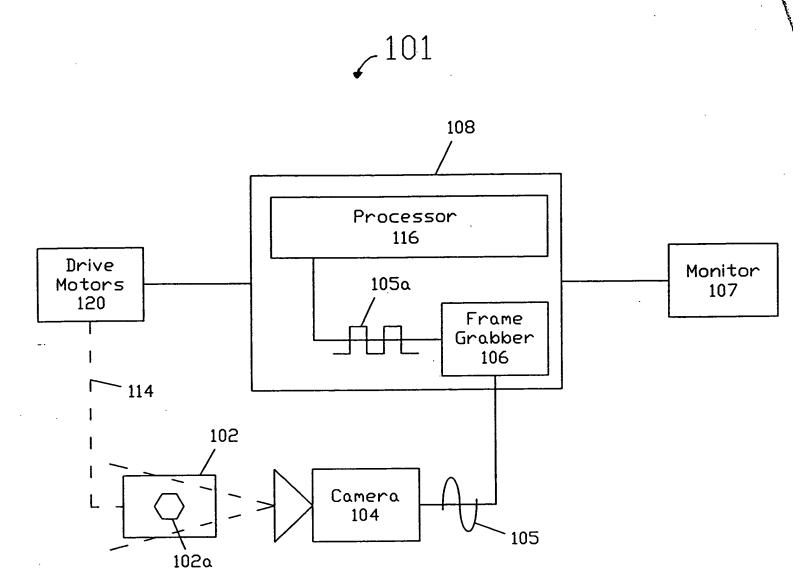


FIG. 1B

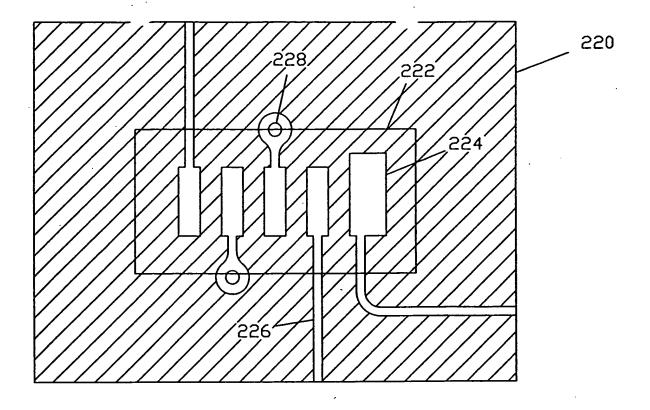


FIG. 2A

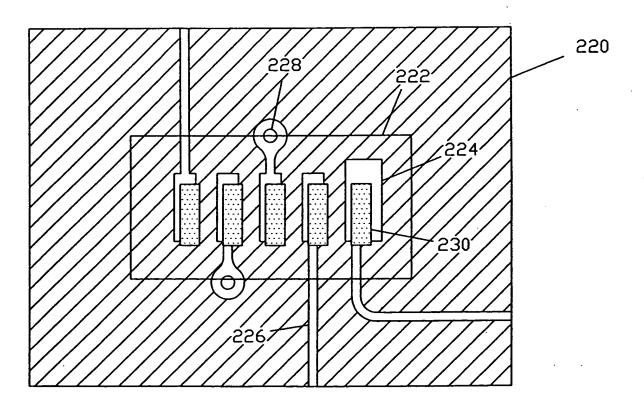


FIG. 2B

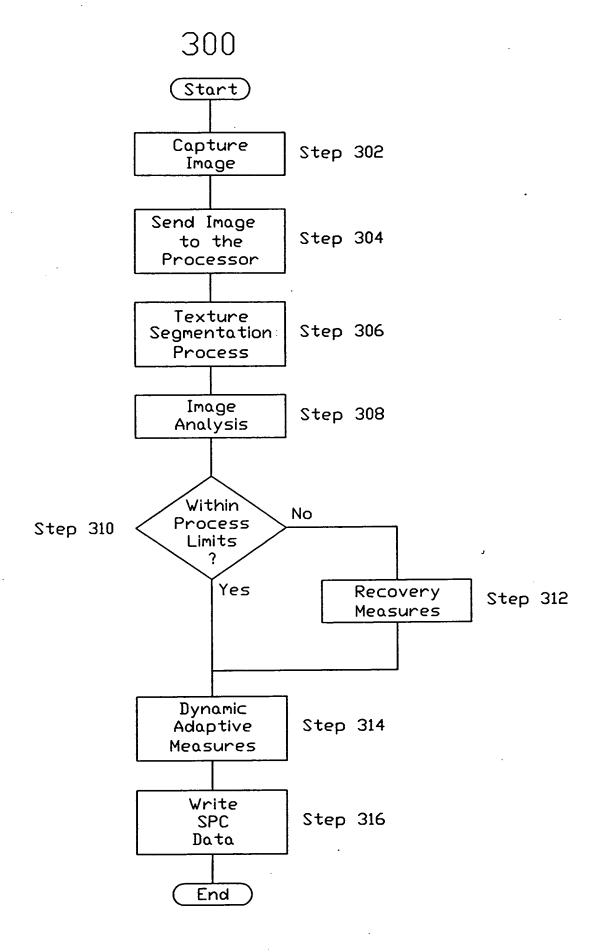


FIG. 3

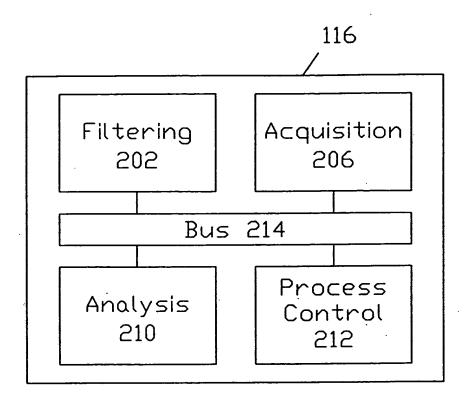


FIG. 4A

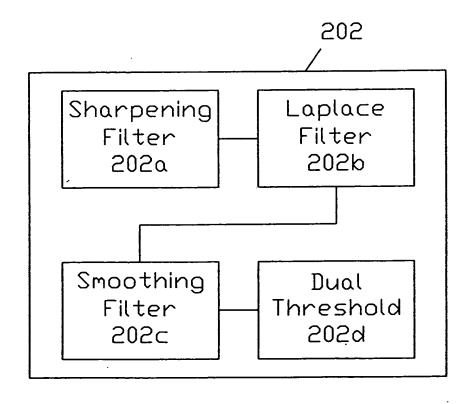


FIG. 4B

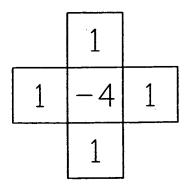


FIG. 5A

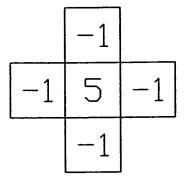


FIG. 5B

| 1 | 1 | 1 |
|---|---|---|
| 1 | 1 | 1 |
| 1 | 1 | 1 |

FIG. 5C

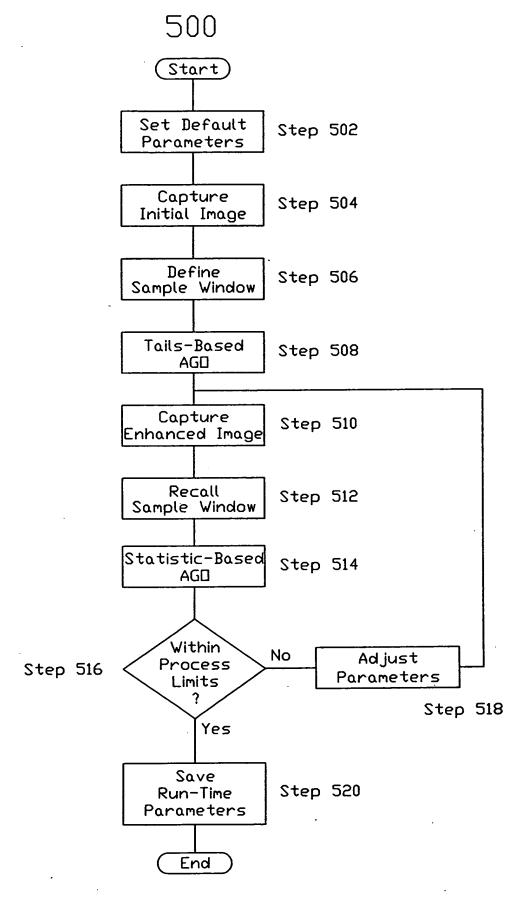


FIG. 6

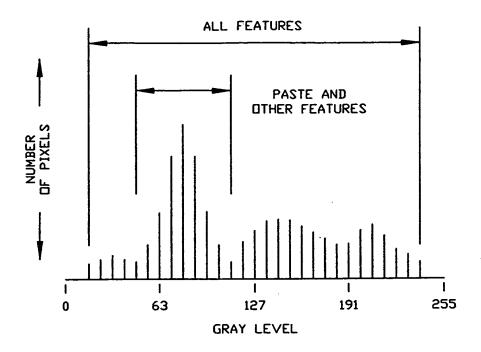


FIG. 7A

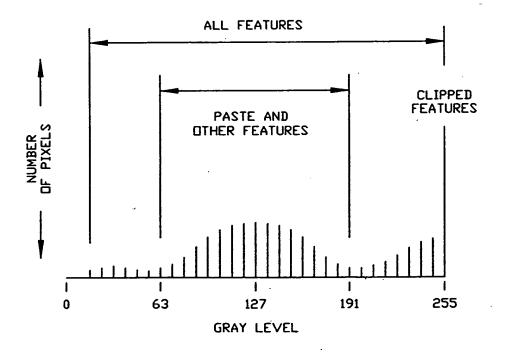


FIG.7B

0.6621 mpp

Ø1.3242

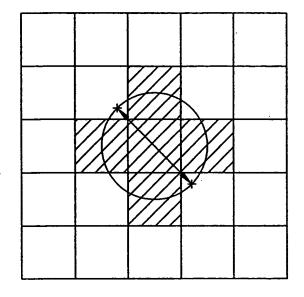


FIG. 8A

ø1.8727

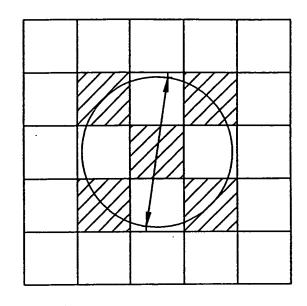


FIG. 8B

Ø2.6484

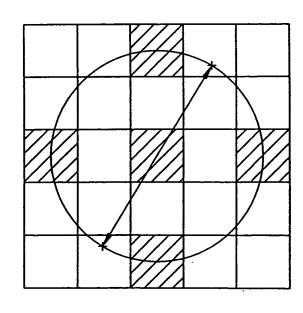


FIG. 8C

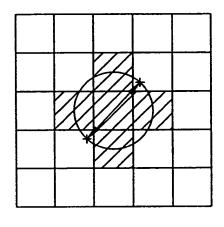
Ø3.7454

FIG. 8D

0.4797 mpp

Ø0.9594

Ø1.3568



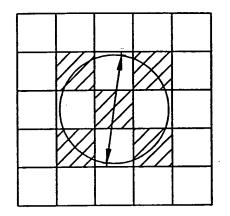
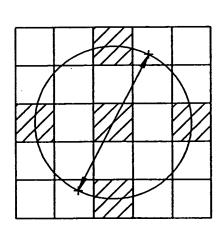


FIG. 8E

FIG. 8F

Ø1.9188

ø2.7136



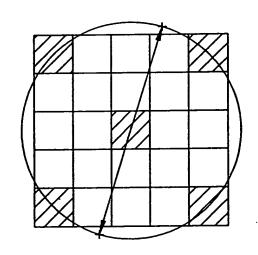
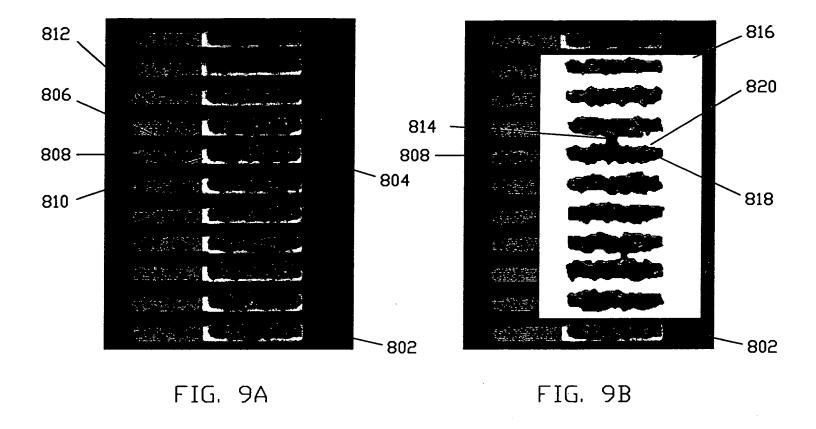


FIG. 8G

FIG. 8H



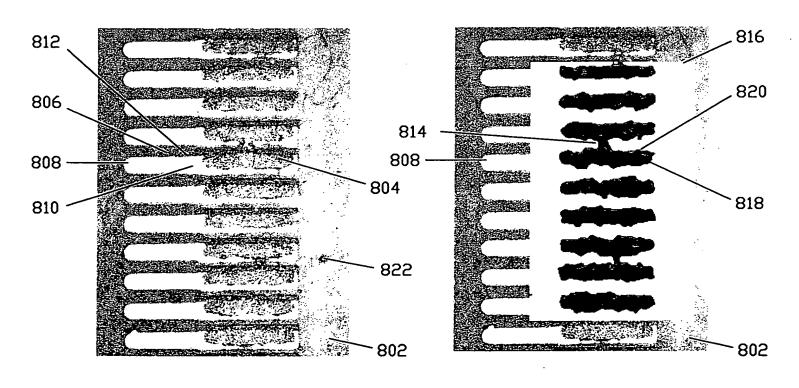


FIG. 9C

FIG. 9D

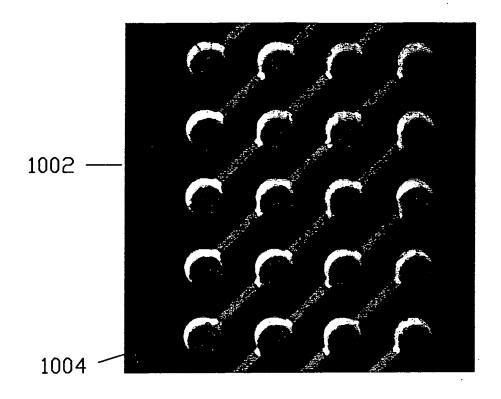
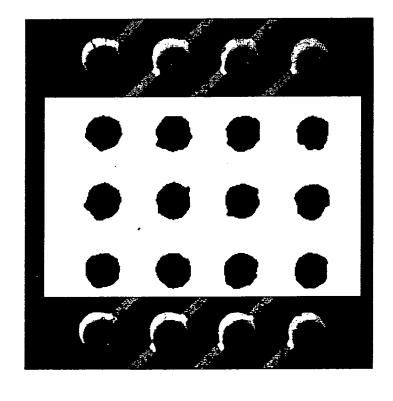


FIG. 10A



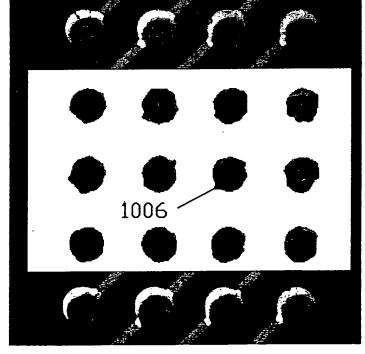


FIG. 10B

FIG. 10C

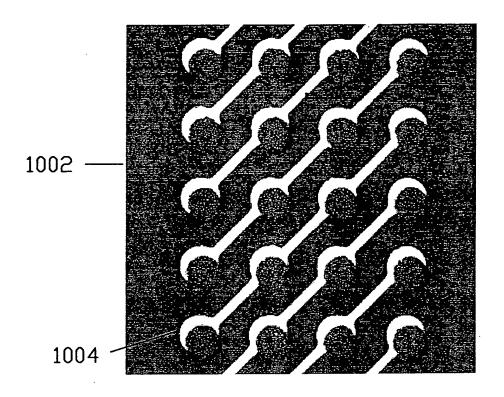
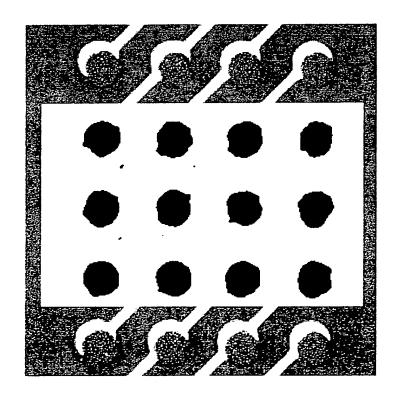


FIG. 11A



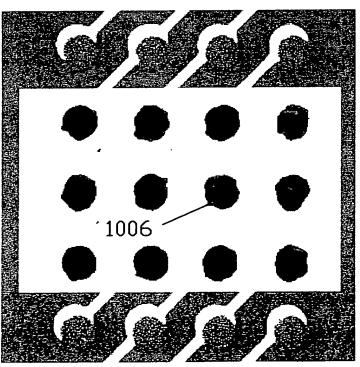


FIG. 11B FIG. 11C

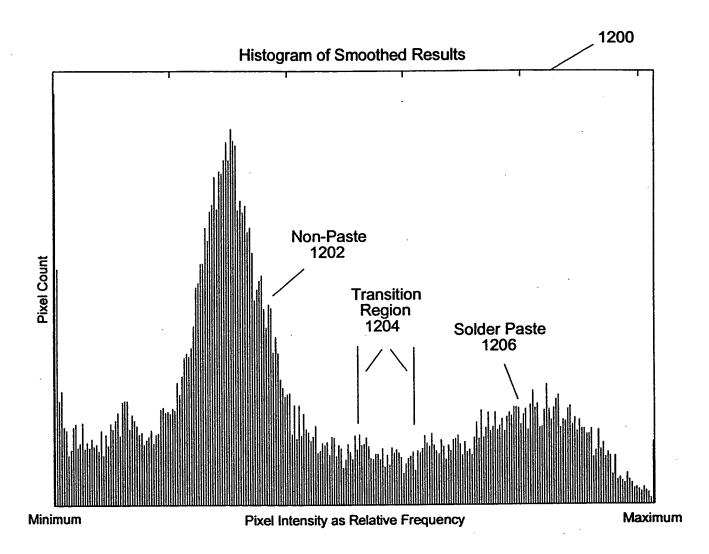
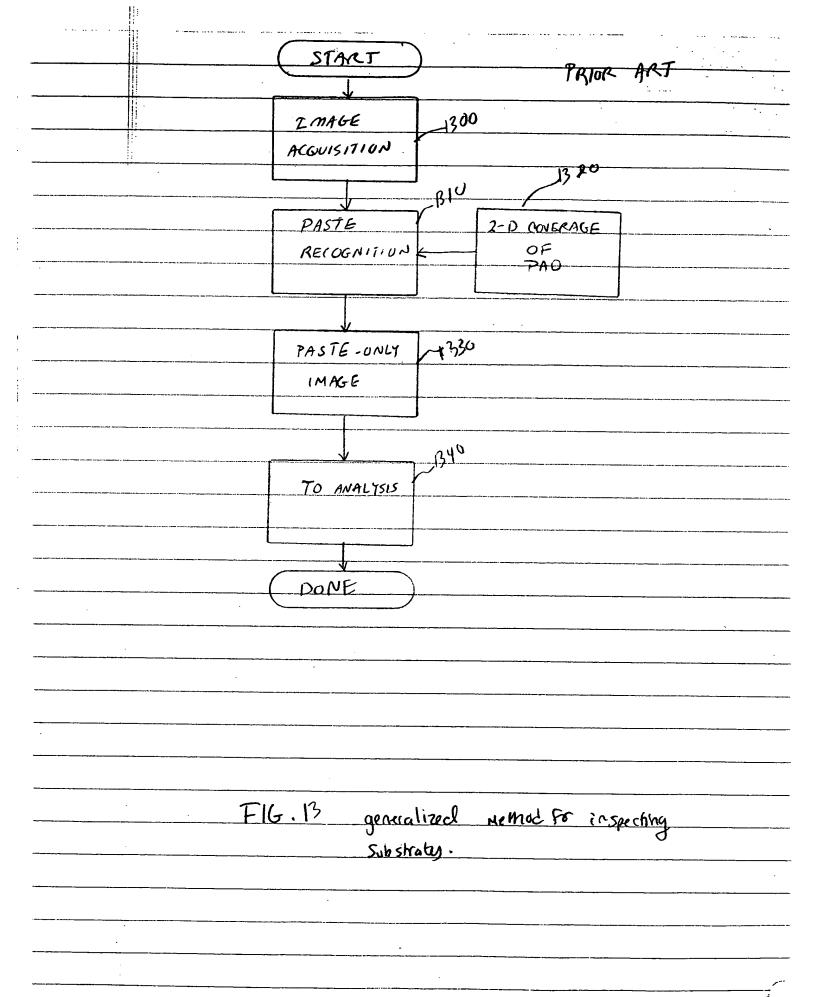
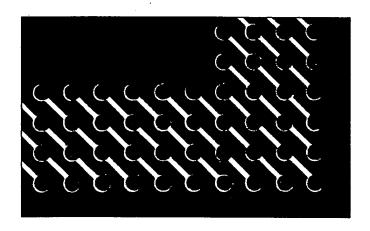


FIG. 12



.22.



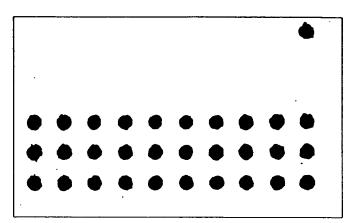
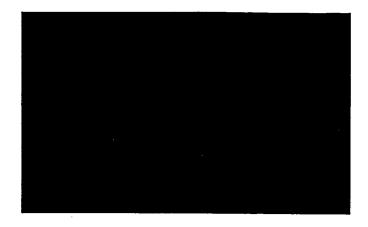


FIGURE : Grayscale image of paste using "white" light source.

FIGURE : Weighted paste-only image via unique texture-based method.

FIG H

F16. 15



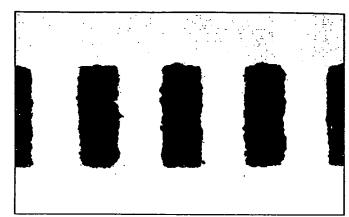


FIGURE 2a: RGB image of UV enhanced fluorescent paste.

FIGURE 2b: Binary paste-only image from blue channel via single threshold method.

F165 16

F19 17

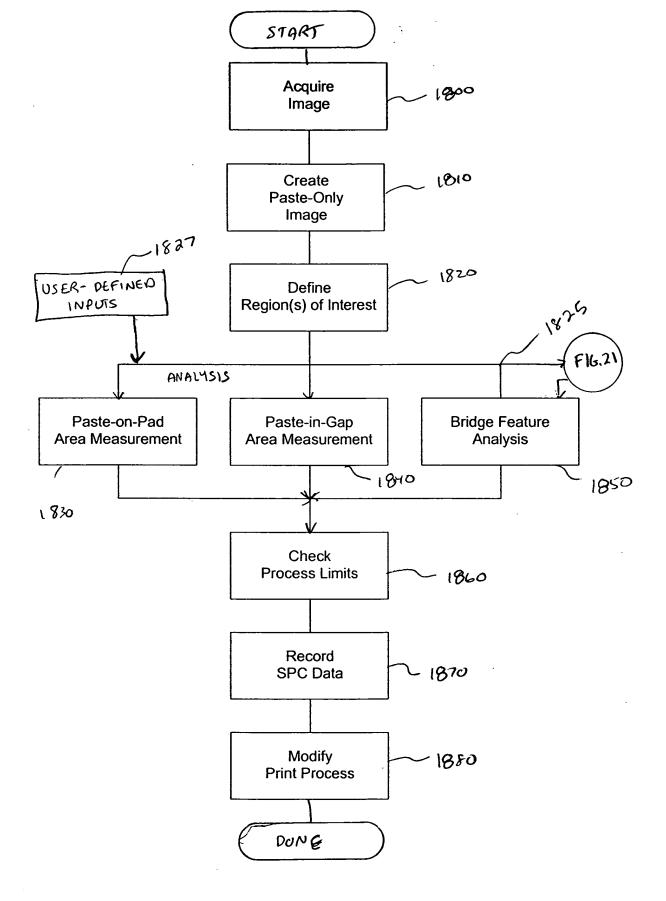


FIG. 18

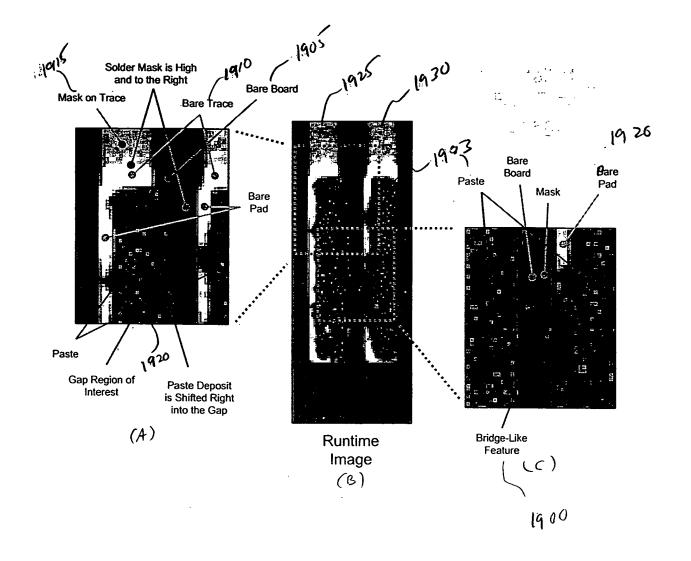
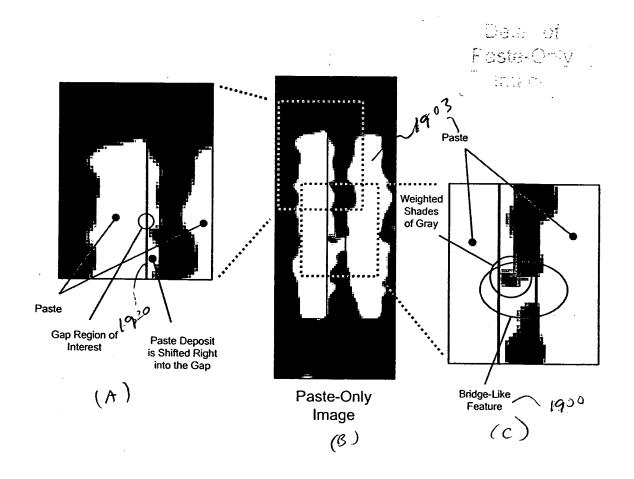
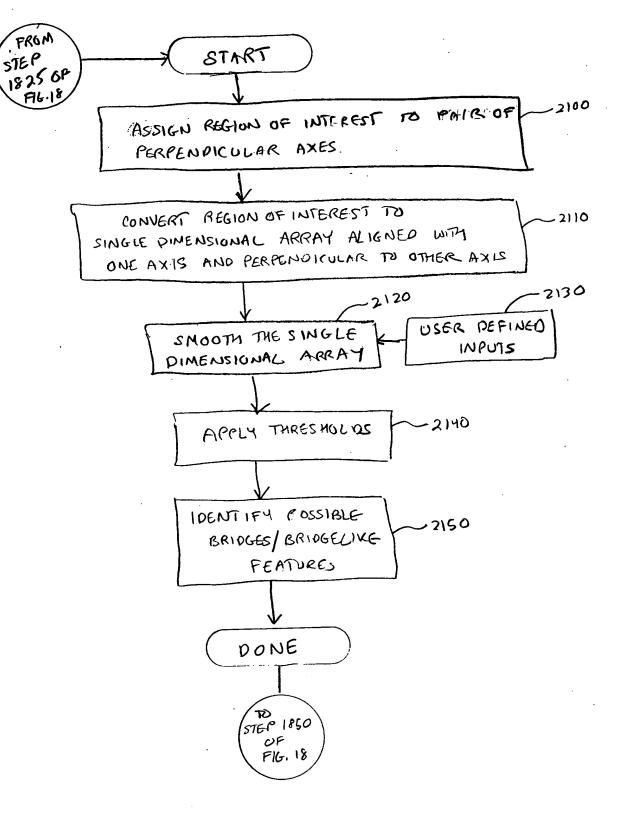


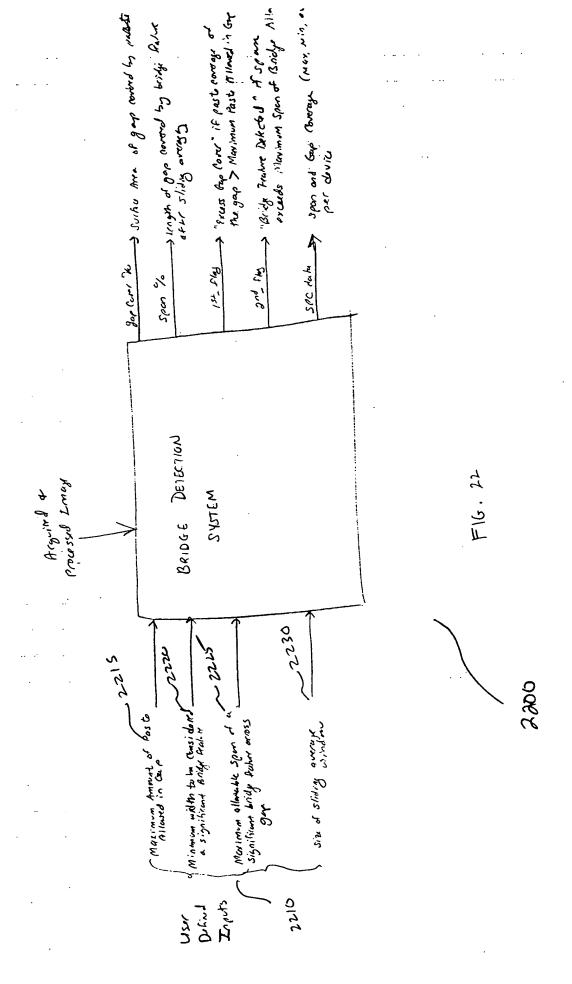
FIG. 197

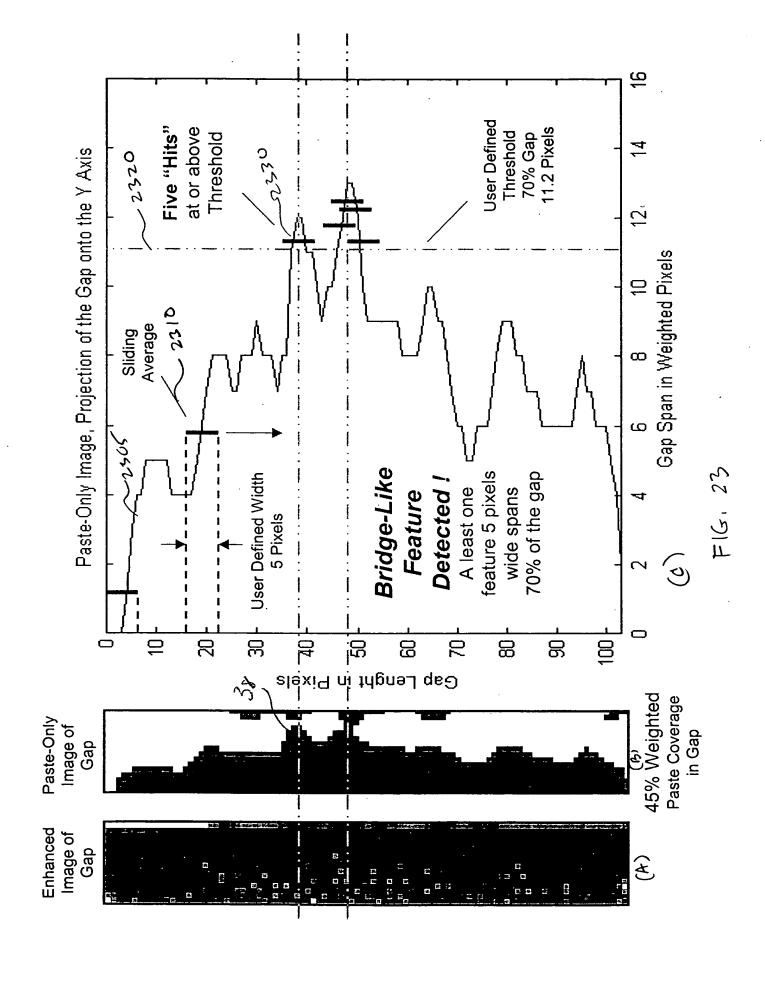


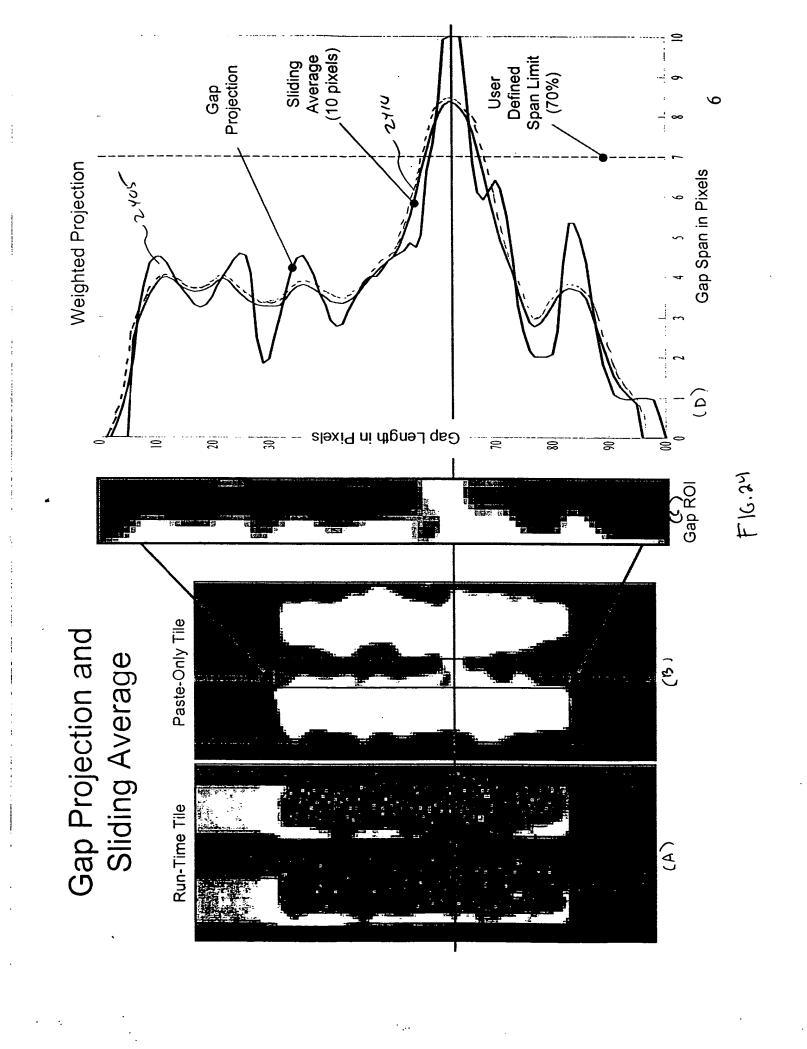
F16,20

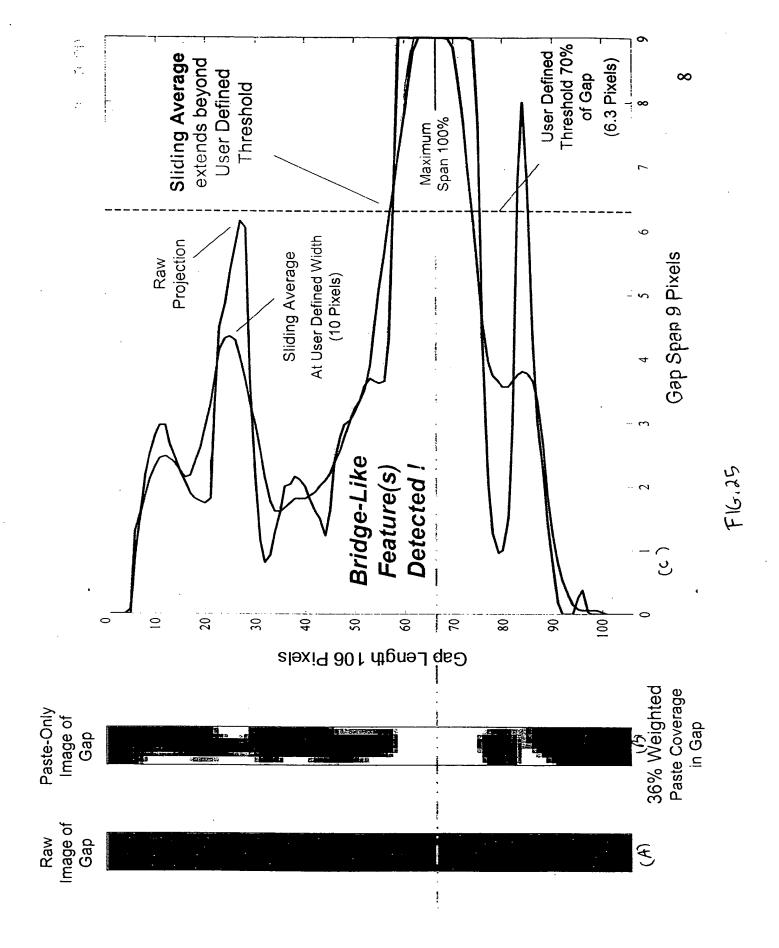


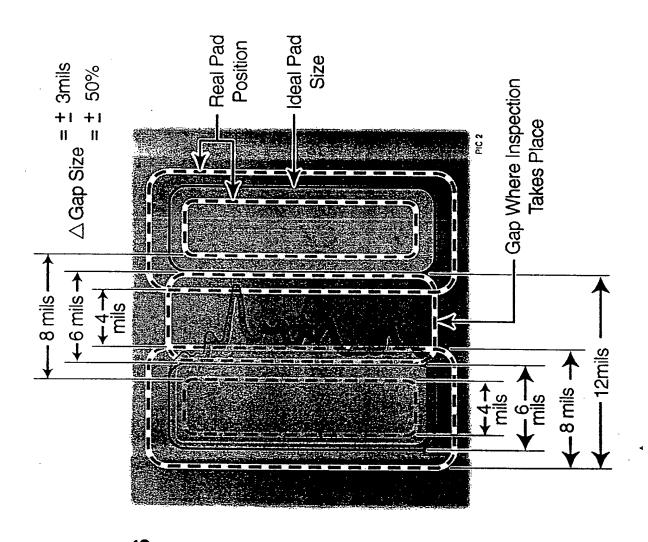
F16.21





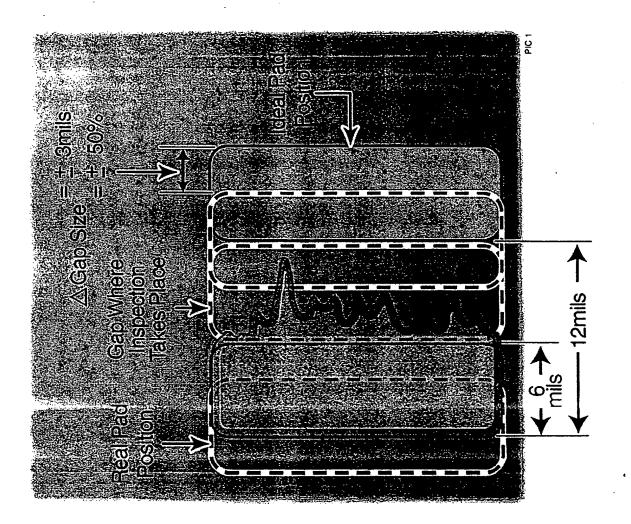




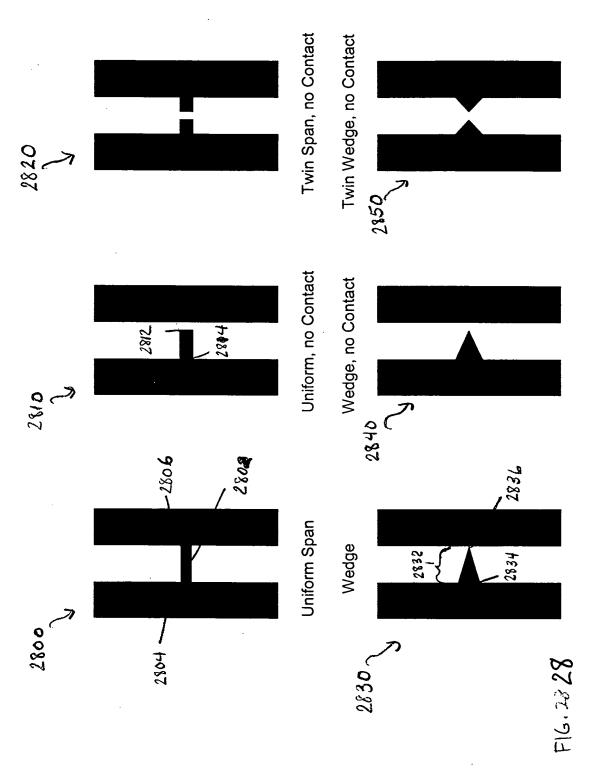


Effect of Pad Size Variations

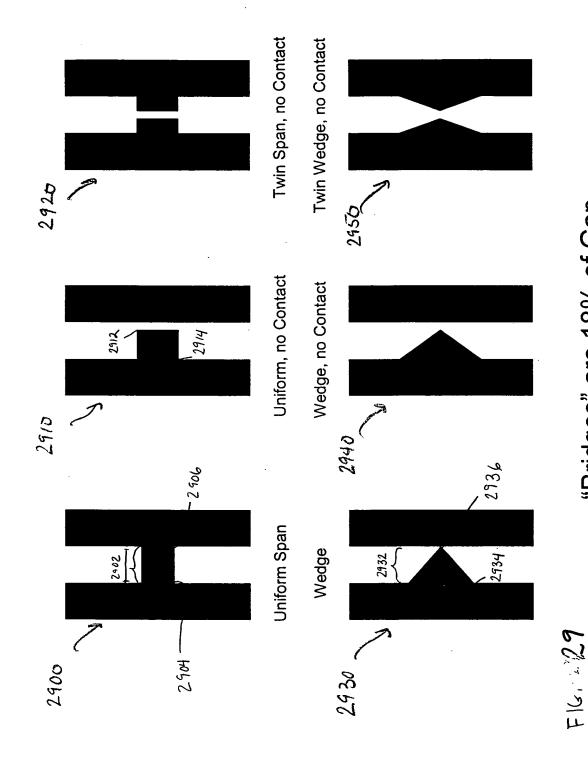
F16,26



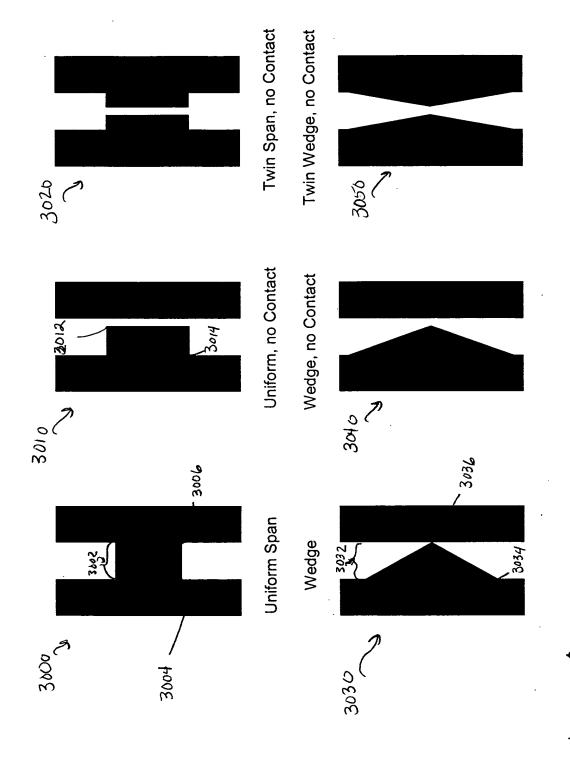
F16.27



All "Bridges" Shown are 6% of Gap



"Bridges" are 18% of Gap



F16.3% 30

"Bridges" are 36% of Gap

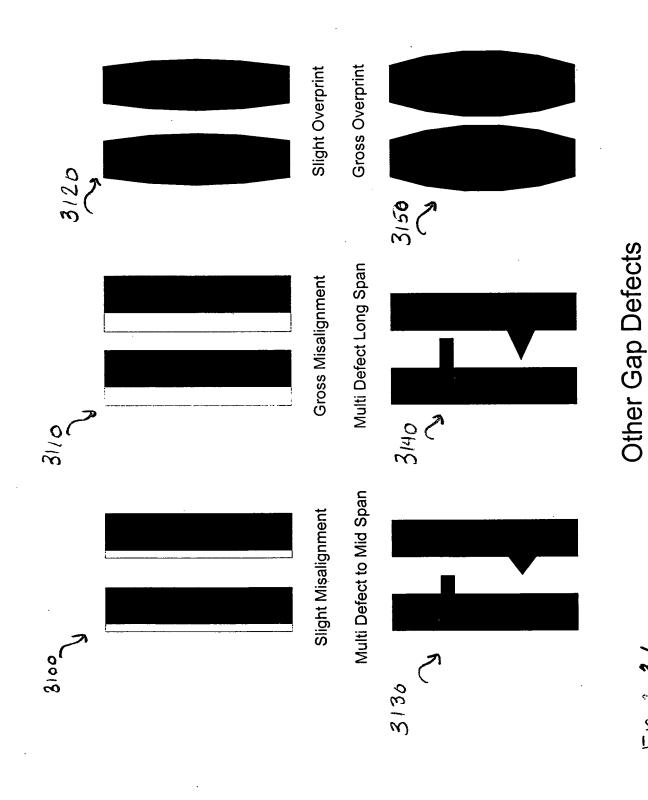


FIG. 3/